

JUL/FY06

**CAMP McCAIN TRAINING
CENTER**

Mississippi

**Army Defense Environmental
Restoration Program
Installation Action Plan**

Final 18 July 06

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Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year Military Munitions Response Program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern, and proposes a comprehensive, installation-wide approach, with associated costs and schedules, to conduct investigations and necessary remedial actions.

In an effort to coordinate planning information between the U.S. Army Environmental Center (USAEC), Camp McCain Training Center (CMTC), National Guard Bureau (NGB), executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and tentative budgets for all major Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.

The following agencies contributed to the formulation and completion of this Installation Action Plan:

Camp McCain Training Center (CMTC) MSARNG
Engineering & Environment, Inc. (EEI)
ICI Ilc for U.S. Army Environmental Center (USAEC)
Mississippi Army National Guard (MSARNG)

Acronyms & Abbreviations

AEDB-R	Army Environmental Database – Restoration
ACSM	Assistant Chief of Staff for Installation Management
AMC	Army Material Command
AOC	Area of Concern
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (1980)
COE	Corps of Engineers
CMTC	Camp McCain Training Center
COL	Colonel
CTT	Closing, Transferred, or Transferring
DA	Department of Army
DERA	Defense Environmental Restoration Account (now called ER,A)
DERP	Defense Environmental Restoration Program
DD	Decision Document
DMM	Discarded Military Munitions
DOD	Department of Defense
DPW	Directorate of Public Works
DSERTS	Defense Site Environmental Restoration Tracking System (now AEDB-R)
EEI	Engineering & Environment, Inc,
EPA	Environmental Protection Agency
ER,A	Environmental Restoration, Army (formerly called DERA)
ERA	Ecological Risk Assessment
FFA	Federal Facility Agreement
FFSRA	Federal Facility Site Remediation Agreement
FS	Feasibility Study
FUDS	Formerly Used Defense Sites
FY	Fiscal Year, Federal Government (1 September to 31 October)
GW	Ground water
IAP	Installation Action Plan
IRA	Interim Remedial Action
IRP	Installation Restoration Program
LTM	Long-Term Management
MC	Munitions Constituents
MCL	Maximum Contaminant Level
MMRP	Military Munitions Response Program
MSARNG	Mississippi Army National Guard
MDEQ	Mississippi Department of Environmental Quality
NFRAP	No Further Remedial Action Planned
NGB	National Guard Bureau
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
OU	Operable Unit
PA	Preliminary Assessment

Acronyms & Abbreviations

pH	Potential Hydrogen
RA	Remedial Action
RA(O)	Remedial Action (Operations)
RA (C)	Remedial Action (Construction)
RAB	Restoration Advisory Board
RAD	Radiation
RC	Response Complete
RAC	Risk Assessment Code
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RD/RA	Remedial Design/Remedial Action
REM	Removal
RI	Remedial Investigation
RFA	RCRA Facility Assessment
RI/FS	Remedial Investigation/Feasibility Study
RIP	Remedy in Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
SWMA	Solid Waste Management Act
SWMU	Solid Waste Management Unit
S&A	Supervision and Administration
TAPP	Technical Assistance for Public Participation
TRC	Technical Review Committee
USACE	United States Army Corps of Engineers
USAEC	United States Army Environmental Center
USAEHA	United States Army Environmental Hygiene Agency (now called USACHPPM)
USATHMA	United States Army Toxic and Hazardous Material Agency (now called AEC)
USCHPPM	United States Center for Health Promotion and Preventive Medicine (formerly called USAEHA)

Installation Locale:

Camp McCain Training Center (CMTC) is located in Grenada and Montgomery Counties, in the north-central portion of Mississippi. CMTC is approximately 105 miles north of the state capitol of Jackson, via Interstate Highway 55, which is seven miles west of the Camp. The county seat of Grenada is approximately 8 miles to the northwest and the town of Elliott is the nearest community.

Installation Mission: CMTC provides a weekend training area for National Guard units located in north Mississippi and other National Guard and Reserve Forces units from Mississippi and adjacent states. The camp accommodates over 600 military personnel for training in small arms firing and non-firing tactical maneuver areas for Armor, Armored Cavalry, Infantry, Mechanized Infantry, Artillery, Engineer, Medical, Aviation and other troop units. In addition, the camp supports the new and expanded mission of the Army National Guard fielding of the M-1 and M1-A1 tanks, the Bradley Fighting Vehicle, the M-9 Armored Combat Earthmover, and the UH-60 Blackhawk helicopter, as well as other equipment and training activities.

Lead Organization:

Headquarters, National Guard Bureau

Lead Executing Agencies:

US Army Environmental Center, US Army Corps of Engineers (USACE)

Regulatory Participation

Federal: US EPA Region 4

State: Mississippi Department Environmental Quality (MDEQ)

National Priorities List (NPL) Status: Not on NPL

Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status:

No RAB, TRC or TAPP exist at CMTC

Installation Program Summaries

MMRP

Primary Contaminants of Concern: UXO, MC

Affected Media of Concern: Soil

Remedy-In-Place (RIP)/Response Complete (RC): 201709

Funding to date (up to FY05): \$ 25,000

Current year funding (FY06): \$ 400,000

Cost-to-Complete (FY07+): \$4,088,000

Cleanup Program Summary

Installation Historic Activity

CMTC is located in Grenada and Montgomery Counties, in the north-central portion of Mississippi. CMTC is approximately 105 miles north of the state capitol of Jackson, via Interstate Highway 55, which is seven miles west of the Camp. The county seat of Grenada is approximately 8 miles to the northwest and the town of Elliott is the nearest community. CMTC totals 13,252 acres: 13,246 acres owned by the Department of Defense (DOD), and 6 acres owned by the State of Mississippi. The DOD land is situated within Grenada and Montgomery Counties, 13,233.8 acres and 12.2 acres respectively.

Camp McCain was established in 1942, along with a number of other military training installations, during World War II. The camp was the home of the 87th and 94th Division before their departure for wartime duty in the European Theater. It also served as a Prisoner of War Camp for a period of time. Camp McCain originally contained 42,000 acres and at its peak had as many as 50,000 troops.

In late 1944, Camp McCain was deactivated. All buildings were removed and even the underground piping was removed and sold. In 1946, National Guard Officials requested that the federal government set aside some 3,000 acres for a National Guard training facility for the use of small arms, rifles and pistols. By 1969, activities at the camp included tactical training with tanks, armored personnel carriers, and other tactical vehicles. The expanded training mission eventually brought additional construction of administration, supply, barracks, dining, and vehicle maintenance facilities.

By 1978, the camp was designated a major training area and could house 400 troops for extended periods. In 1987 and 1995, as Camp McCain continued to grow in responsibility, approximately 4,447 and 5,800 acres of land, respectively, was acquired to provide additional training areas as well as a site for a new firing range. Currently, Camp McCain has been directed to support designated training, and serve as a weekend National Guard Training Center.

MMRP

- **Prior Year Progress:** PA was completed October 2002 and a total of 3 MMRP sites were identified. Site Inspection (SI) will be completed in FY08. Additional work will be determined after SI is completed.
- **Future Plan of Action:** The USAEC plans to complete all SIs by FY08 and execute follow-on phases/actions as required in the individual site cleanup strategies.

CAMP McCain

Military Munitions Response Program

Total AEDB-R MMRP Sites / AEDB-R sites with Response Complete: 3/0

AEDB-R Site Types: 3 small arms ranges

Most Widespread Contaminants of Concern: UXO's, MC

Media of Concern: Soil

Completed REM/IRA/RA: None

Total MMRP Funding

Prior years (up to FY05):	\$ 25,000
Current Year (FY06):	\$ 400,000
Future Requirements (FY07+):	\$4,088,000
Total:	\$4,513,000

Duration of MMRP

Year of MMRP Inception: 2002

Year of MMRP RIP/RC: 2017

Year of MMRP Completion Including LTM: 2047

MMRP Contamination Assessment

MMRP Contamination Assessment Overview

3 MMRP sites will be evaluated with an SI in FY06. The results of the investigation will determine the follow on actions. Two of these sites, CMTS-002-R-01 and CMTS-003-R-01, are candidates for the USACE, Formerly Used Defense Site program (FUDS). Two of the sites have a RAC score of 5 and one has a RAC score of 2. The RAC score is an estimate of the relative explosive safety risk, which is reported as a number from 1 (high explosive safety risks) to 5 (negligible explosive safety risk).

The CTT inventory report was completed in October 2002.

MMRP Cleanup Exit Strategy

The USAEC plans to complete all SIs by FY08 and execute follow-on phases/actions as required in the individual site cleanup strategies.

1951

- U.S. Army Corps of Engineers, Mobile District, July.

1996

- U.S. Army Corps of Engineers, Rock Island District. Archives Search Report: Findings for the former Camp McCain, December.
- U.S. Army Corps of Engineers, Rock Island District. Camp McCain Project Areas, Revised, December 13.

1999

- U.S. Army Corps of Engineers, Huntsville District. Engineering Evaluation/Cost Analysis Camp McCain, Grenada Mississippi, June.

2000

- U.S. Army Corps of Engineers, Huntsville District. Institutional Controls Explosive Safety Submission Camp McCain Project Number A06MS000702, October.

2002

- CTT Inventory Report, October.

CAMP McCAIN

Military Munitions
Response Program
Site Descriptions

CMTS-001-R-01

Known Distance Rifle Range Area

SITE DESCRIPTION

The Known Distance Rifle Range Area, 45.3 acres, was established at Camp McCain during the early 1940s for World War II troop training. This area includes the former ranges known as ranges 1, 2, & 3 that are located in the current Camp McCain cantonment area. These ranges had a total of 150 targets and probable ordnance used was .30 caliber small arms. The former ranges' targets and berm area are within the current operational range area.

STATUS

REGULATORY DRIVER: CERCLA

RAC SCORE: 5

CONTAMINANTS OF CONCERN:
UXO, MC

MEDIA OF CONCERN:
Soil

Phases	Start	End
PA	200201	200305
SI	200510	200609
RI/FS.....	201110	201209
RD.....	201510	201609
RA (C)	201609	201709

RC DATE: 201709

CLEANUP STRATEGY

The USAEC plans to complete all SIs by FY08 and execute follow-on phases/actions as required in the individual site cleanup strategies.

CMTS-002-R-01

Small Arms Transferred Range Area

SITE DESCRIPTION

The Small Arms Transferred Range Area was established on Camp McCain in the early 1940s for troop training for World War II. This area includes portions of nine former ranges with fans that overlap each other. These former ranges were known as ranges 8, 9, & 10 (antiaircraft ranges), Range 11 (moving target range), Range 13 (dismounted submachine gun range), Range 14 (moving vehicle range), and Ranges 16, 17, & 18 (miniature anti-aircraft range). The Small Arms Transferred Range Area occupies 97.1 acres. The Army used this area for training through 1969. The ordnance associated with all the former ranges that overlap the area is small arms.

STATUS

REGULATORY DRIVER: CERCLA

RAC SCORE: 5

CONTAMINANTS: UXO

MEDIA OF CONCERN:
Soil

PHASES	Start	End
PA	200201	200305
SI	200510	200609
RI/FS.....	201110	201209
RD.....	201510	201609
RA (C)	201609	201709

RC DATE: 201709

CLEANUP STRATEGY

The USAEC plans to complete all SIs by FY08 and execute follow-on phases/actions as required in the individual site cleanup strategies.

CMTS-003-R-01

Range 15

SITE DESCRIPTION

Range 15 was a 1000-inch anti-tank range that was in use between 1943 and 1946. The range was listed in the archive search report prepared in 1996. Range 15 occupies 13.4. The report listed the munitions type as 37 mm anti-tank rounds. The area was also used as a range fan area for small arms training until 1969. Many of the ranges that overlap the Small Arms Transferred Range Area also overlap the Range 15 area. The area is currently under private ownership for agriculture purposes. The range area is considered transferred for the purposes of this inventory.

STATUS

REGULATORY DRIVER: CERCLA

RAC SCORE: 2

CONTAMINANTS: UXOs

MEDIA OF CONCERN:
Soil

PHASES	Start	End
PA	200201	200305
SI	200510	200609
RI/FS	201110	201209
RD	201510	201609
RA (C)	201610	201709
LTM	201709	204709

RC DATE: 201709

CLEANUP STRATEGY

The USAEC plans to complete all SIs by FY08 and execute follow-on phases/actions as required in the individual site cleanup strategies.

Initiation of MMRP: 2002

Past Phase Completion Milestones

Year

- PA complete 2003

Projected ROD/DD Approval Dates: Unknown

Projected Construction Completion: 201709

Schedule for Five Year Reviews: None

Estimated Completion Date of MMRP including LTM: 204709

Camp McCain MMRP Schedule
(Based on current funding constraints)

AEDB-R#	PHASE	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15+
CMTS-001-R-01	SI									
	RI/FS									
	RD									201609
	RA (C)									201709
CMTS-002-R-01	SI									
	RI/FS									
	RD									201609
	RA (C)									201709
CMTS-003-R-01	SI									
	RI/FS									
	RD									201609
	RA (C)									201709
	LTM									204709

Prior Years Funds

Total Funding up to FY04: \$0K

Year	Site Information	Expenditures	FY Total
FY 05		\$25K	\$25K
Total Funding up to FY05: \$25K			

Current Year Requirements

Year	Site Information	Expenditures	FY Total
FY 06		\$400K	\$400K

Total Funding FY06: \$400K

Total Future Requirements: \$4,088K

Total MMR Program Cost (from inception to completion of the MMRP): \$4,513K

Lack of outstanding cleanup issues or activities does not warrant establishment of a RAB.